65th North Central Avian Disease Conference
March 17-18, 2014
St. Paul Rivercentre, St. Paul, MN

Monday, March 17, 2014

7:30 – 8:30 AM  Registration & Continental Breakfast
8:30 – 8:35  Welcome and Introduction – Program NCADC Chair
8:35 – 8:50  Welcome – Mr. Steve Olson, Executive Director of:
            Midwest Poultry Federation
            Minnesota Turkey Growers Association
            Chicken & Egg Association of Minnesota

Scientific Presentations  

Moderator: Ching Ching Wu

8:50 – 9:10  Yuko Sato*
             Necrotizing and hemorrhagic enteritis and hepatitis in commercial
             layers in Indiana

9:10 – 9:30  Mahmoud Ibrahim
             Toward the development of broadly reactive influenza vaccine for the
             control of highly pathogenic avian influenza H5N1 in Egypt

9:30 – 9:50  Jacqueline Nolting
             Challenges with the detection and characterization of avian-origin
             influenza A viruses from wild-waterfowl

9:50 – 10:10 Sunil Mor
            Molecular characterization of newly isolated turkey arthritis reoviruses

10:10 – 10:30 Tamer Sharafeldin*
            Long term pathogenicity of turkey arthritis reovirus (TARV) in turkeys

10:30 – 10:50 Break

10:50 – 11:10 Oluwakemi Osunderu*
             The socio-economic impact of vaccine failure on poultry farms in Nigeria

11:10 – 11:30 Sandra Aehle
            Early vaccination for protection against salmonella infections of poultry

11:30 – 11:50 Hector Cervantes
            Salmonella control programs in the USA

11:50 – 12:00 Question and Answer Session for Speakers

12:00 – 1:00 PM  Lunch  Generously sponsored by Alltech

Moderator: Patricia Wakenell

1:00 – 1:20  Alexander Weaver
             Mycotoxins: Effect on immunity and performance and developing an
             effective program to manage them

*Paper eligible for B. S. Pomeroy Award
1:20 – 1:40  Robert Owen  
The effectiveness of a Bacillus licheniformis probiotic on the reduction in Salmonella heidelberg shedding and colonization in broiler chickens

1:40 – 2:00  R. Mick Fulton  
Why biosecurity is important in the duck industry

2:00 – 2:20  Mia Kim-Torchetti  
2013 review of avian influenza viruses detected in the United States

2:20 – 2:40  Tim Johnson  
The Turkey Gut Health Initiative

2:40 – 3:00  Break  
(Moderator: Chang-Won Lee)

3:00 – 3:20  Patricia Wakenell  
The impact of urban and backyard poultry on commercial operations

3:20 – 3:40  Dale Lauer  
Lessons learned on avian Influenza table top planning in Minnesota

3:40 – 4:00  Daniel Karunakaran  
Control coccidiosis in turkeys - new approaches

4:00 – 5:00  Disease Round Table

5:00 – 5:40  NCADC Business Meeting

6:00 – 8:00  Awards Banquet  
Generously sponsored by Alltech and Maple Leaf Farms

Tuesday, March 18, 2014

Poultry Management Symposium  
(Moderator: R. Mick Fulton)

8:00 – 8:45  Brian Wilcox  
How to make chicks happy (lighting)

8:45 – 9:30  Ken Lamm  
Managing ventilation in layer houses

9:30 – 10:15  Brian Fairchild  
Optimizing poultry house ventilation in hot weather

10:15 – 10:30  Break

10:30 – 11:15  Anthony Quant  
Feed issues

11:15 – 12:00  Jim Arends  
Insect management challenges - now and in the near future

12:00 – 12:15  Panel  
Questions and Answers
**NCADC & MPF Joint Symposium on “Poultry Nutrition and Health” (1:30 – 5:00)**

Dr. Sheila Purdum, University of Nebraska, Chairperson

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<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tr>
<td>1:30 – 2:15</td>
<td>Thomas Elam</td>
<td>Commodities for poultry</td>
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<td>2:15 – 3:00</td>
<td>Bob Loar</td>
<td>Metabolizable energy evaluation of ingredients in the poultry ration and performance criteria</td>
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<td>3:00 – 3:15</td>
<td>Break</td>
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<td>3:15 – 4:00</td>
<td>Nelson Ward</td>
<td>Enzymes – beyond phytase</td>
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<td>4:00 – 4:45</td>
<td>Louis Romero</td>
<td>Advances in the use of enzymes and direct-fed microbials in poultry nutrition</td>
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